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SANYO ELECTRIC LTD -- MANGANESE DIOXIDE LITHIUM PRIMARY BATTERIES

MSDS Safety Information

FSC: 6135

NIIN: 01-478-3935 MSDS Date: 01/01/1999 MSDS Num: CLQCV

Product ID: MANGANESE DIOXIDE LITHIUM PRIMARY BATTERIES

MFN: 01

Responsible Party Cage: S4091

Name: SANYO ELECTRIC CO LTD Address: 18 KEIHAN HONTORI -2

CHOME

City: MORIGUCHI-SHI NK 00000

Country: JA

Emergency Phone Number: (619) 661-6520

Published: Y

Contractor Summary

Cage: 4U927

Name: MATHEWS ASSOCIATES INC Address: 645 HICKMAN CIRCLE

City: SANFORD FL 32771 Phone: 407-323-3390

Contract Number: SP0430-02-M-P068

Cage: S4091

Name: SANYO ELECTRIC CO LTD

Address: 18 KEIHAN HONTORI -2 CHOME

City: MORIGUCHI-SHI NK 00000

Country: JA

Item Description Information

Item Manager: S9G

Item Name: BATTERY, NONRECHARGEABLE

Unit of Issue: EA

Type of Container: EACH

Health Hazards Data

Route Of Entry Inds - Inhalation: YES

Skin: YES Ingestion: YES

Carcinogenicity Inds - NTP: NO

IARC: NO OSHA: NO

Effects of Exposure: TH

ESE CHEMICALS ARE CONTAINED IN A SEALED CAN. RISK OF

EXPOSURE OCCURS ONLY IF THE BATTERY IS MECHANICALLY OR ELECTRICALLY ABUSED. THE MOST LIKELY RISK IS ACUTE EXPOSURE WHEN A CELL VENTS. DME IS BELI EVED TO BE SLIGHTLY TO MODERATELY TOXIC, AND EC AND BC ARE CONSIDERED TO BE NON-TOXIC BUT MODERATELY IRRITATING TO THE EYES. LICF2SO3 IS IRRITATING TO SKIN, EYES AND MUCOUS MEMBRANES. CONTACT OF ELECT ROLYTE AND EXTRUDED LITHIUM WITH SKIN AND EYES SHOULD BE AVOIDED.

Signs And Symptions Of

Overexposure: DME MAY BE A REPRODUCTIVE HAZARD. LITHIUM CAN CAUSE THERMAL AND CHEMICAL BURNS UPON CONTACT WITH SKIN.

Medical Cond Aggravated By Exposure: AN ACUTE EXPOSURE WILL NOT GENERALLY AGGRAVATE ANDY MEDICAL CONDITION.

First Aid: IN CASE OF SKIN CONTACT WITH CONTENTS OF BATTERY, FLUSH IMMEDIATELY WITH WATER. FOR EYE CONTACT, FLUSH WITH COPIOUS AMOUNT OF WATER FOR 15 MINUTES. DO NOT INHALE VENTED MATERIAL. IF IRRITATION PERSIST S, GET MEDICAL HELP.

Handling and Disposal

Spill Release Procedures: THE PREFERRED RESPONSE IS TO LEAVE THE AREA AND ALLOW BATTERIES TO COOL AND VAPORS TO DISSIPATE. AVOID SKIN AND EYE CONTACT OR INHALATION OF VAPORS. REMOVE SPILLED LIQUID WITH ABSORBENT AND INCINERATE.

Waste Disposal Methods: DISPOSE IN ACCORDANCE WITH APPROPRIATE REGULATIONS. OPEN CELLS SHOULD BE TREATED AS HAZARDOUS WASTES.

Handling And Storage Precautions: AV

OID MECHANICAL OR ELECTRICAL ABUSE.

Other Precautions: BATTERIES MAY EXPLODE OR CAUSE BURNS, IF DISASSEMBLED, CRUSHED, RECHARGED OR EXPOSED TO FIRE OR HIGH TEMPERATURE. DO NOT SHORT NOR INSTALL WITH INCORRECT POLARITY.

Fire and Explosion Hazard Information

Flash Point: =-1.C, 30.2F Flash Point Text: DME

Extinguishing Media: WATER. FOR BULK QUANTITIES OF UNPACKAGED CELL USE LITH-X (GRAPHIT BASE). IN THIS CASE, USE NO WATER.

Fire Fighting Procedures: IN CASE OF FIRE IN AN ADJACENT AREA, USE WATER. CO2 OR DRY CHEMICAL EXTINGUISHERS IF CELLS ARE PACKED IN THEIR ORIGNIAL CONTAINERS SINCE THE FUEL OF THE FIRE IS BASICALLY PAPER PRODUCTS. FOR BULK QUAN TITIES OF UNPACKAGED CELL USE LITH-X (GRAPHIT BASE). IN THIS CASE, USE NO WATER.

Control Measures

Respirat

ory Protection: NOT NECESSARY UNDER CONDITIONS OF NORMAL USE. Ventilation: NOT NECESSARY UNDER CONDITIONS OF NORMAL USE. Protective Gloves: NOT NECESSARY UNDER CONDITIONS OF NORMAL USE. Eye Protection: NOT NECESSARY UNDER CONDITIONS OF NORMAL USE. Other Protective Equipment: NOT NECESSARY UNDER CONDITIONS OF NORMAL USE. Supplemental Safety and Health: ITEM IS LITHIUM MANGANESE DIOXIDE BATTERY ASSEMBLY CONTAINING 2 PARALLEL STRINGS EACH WITH 3 CR-2 SIZE CELLS & SCHOTTKY BLOCKING DIODE.
Physical/Chemical Properties
HCC: Z6 Evaporation Rate & DME-4.99 Solubility in Water: EC,BC-MODERATE. Appearance and Odor: LITHIUM IS A SOFT, SILVERY METAL. MNO2 IS A BLACK POWDER.
Reactivity Data
Stability Indicator: YES Stability Condition To Avoid: DO NOT H EAT, DISASSEMBLE, OR RECHARGE. Hazardous Polymerization Indicator: NO Conditions To Avoid Polymerization: WILL NOT OCCUR.
Toxicological Information
Ecological Information
MSDS Transport Information ====================================
Transport Information: ITEM IS MARKED AS: LITHIUM BATTERIES, SOLID CATHODE,9, UN3090.
Regulatory Information
Other Information
Transportation Information

Responsible Party Cage: S4091

Trans ID NO: 159752

Product ID: MANGANESE DIOXIDE LITHIUM PRIMARY BATTERIES

MSDS Prepared Date: 01/01/1999

Review Date: 11/07/2001

MFN: 1

Multiple KIT Number: 0 Unit Of Issue: EA

Type Of Container: EACH

Additional Data: UN NUMBER 3090 PER MARKINGS ON THE BOX.

Detail DOT Information

DOT PSN Code: IJN

DOT Proper Shipping Name

: LITHIUM BATTERY Hazard Class: 9 UN ID Num: UN3090 DOT Packaging Group: II

Label: CLASS 9 Special Provision: 29

Packaging Exception: NONE

Non Bulk Pack: 185 Bulk Pack: NONE Max Qty Pass: 5 KG

Max Qty Cargo: 35KGGROSS

Vessel Stow Req: A

Detail IMO Information

IMO PSN Code: JAM

IMO Proper Shipping Name: LITHIUM BATTERIES

IMDG Page Number: 9033

UN Number: 3090 UN Hazard Class: 9

IMO Pac

kaging Group: II

Subsidiary Risk Label: -EMS Number: 4.1-06

MED First Aid Guide NUM: NON

Detail IATA Information

IATA PSN Code: PFV IATA UN ID Num: 3090

IATA Proper Shipping Name: LITHIUM BATTERIES +

IATA UN Class: 9

IATA Label: MISCELLANEOUS

UN Packing Group: II

Packing Note Passenger: 903 Max Quant Pass: 5KG G Max Quant Cargo: 35KG G Packaging Note Cargo: 903

Exceptions: A45

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Detail AFI Information

AFI PSN Code: PFT

AFI Proper Shipping Name: LITHIUM BATTERIES, AFI PSN Modifier: LIQUID OR SOLID CATHODE

AFI Hazard Class: 9 AFI UN ID NUM: UN3090 AFI Packing Group: II Special Provisions: P5

Back Pack Reference: A13.8

HAZCOM Label

Product ID: MANGANESE DIO

XIDE LITHIUM PRIMARY BATTERIES

Cage: S4091

Company Name: SANYO ELECTRIC CO LTD Street: 18 KEIHAN HONTORI -2 CHOME

City: MORIGUCHI-SHI NK

Zipcode: 00000 Country: JA

Health Emergency Phone: (619) 661-6520

Label Required IND: Y

Date Of Label Review: 11/07/2001

Status Code: A
Year Procured: 2002
Origination Code: F
Eye Protection IND: YES
Skin Protection IND: YES
Signal Word: CAUTION
Health Hazard: Slight
Contact Hazard: Slight
Fire Hazard: Slight
Reactivity Hazard: None

Hazard And Precautions: THES

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